

AMC CODE: 1G

### Section C

**PRON** C20SACXX      **TDP NO.** 31-15-2318      **TDPL DATE:** 15 Mar 2000

**ITEM NOMENCLATURE:** Solenoid Assembly

**NSN:** 5945-01-218-7048

**PART:** 31-15-2318

**ENGINEERING EXCEPTIONS:** The following engineering exceptions apply to this procurement action:  
1. Unless otherwise specified, the issues of the specifications and standards which are DOD adopted shall be those listed in the DODISS dated 1 JUL 99 with supplement dated 1 Sep 99. Unless otherwise specified, the issues of specifications and standards not listed in the DODISS shall be the issue of the nongovernment specifications and standards which were current on 15 March 2000.

2. **OZONE DEPLETING SUBSTANCES:** The contractor shall eliminate or minimize the use of hazardous materials in fabricating or testing the Solenoid Assembly. The contractor shall comply with local, state and federal environmental laws. The technical data provided to the contractor does not require the use of any ozone depleting substance (ODS). The contractor is requested to avoid the use of such substances in the completion of this contract.

#### **3. All Specifications/Standards are Mandatory**

4. The following engineering exceptions apply to the TDPL, 31-15-2318:

- a. Delete drawing 31-15-2380 from the TDPL.
- b. Delete the following Specifications/Standards from the TDPL:
  - 1. EA-G-1491
  - 2. 3-1040-279-12&P
  - 3. MIL-F-12070
  - 4. MIL-G-3056
  - 5. ANSI-ASTM D439
- c. Replace PP-B-636 with ASTM D5118.
- d. Replace PPP-T-76 with ASTM D5486, Type V.
- e. Replace MIL-P-116 with MIL-STD-2073-1.
- f. Delete Outstanding Engineering Change Y16-0060-001.

**POC:** Rich Dixon  
**PHONE:** DSN 793-7153  
**RESUBMITTAL:** NO

**OFFICE:** AMSSB-RSO-SMK (RI)  
**MYLARS REQUIRED:** NO  
**DATE:** 15 March 2000

AMC CODE: 1G

Section C

PRON C20SACXX TDP NO. 31-15-2318 TDPL DATE: 15 Mar 2000

ITEM NOMENCLATURE: Solenoid Assembly

NSN: 5945-01-218-7048 PART: 31-15-2318

---

5. The following export control warning notice is applicable to this TDP:

NOTICE TO ACCOMPANY THE DISSEMINATION OF EXPORT-CONTROLLED TECHNICAL DATA

A. Export of information contained herein, which includes, in some circumstances, release to foreign nationals within the United States, without first obtaining approval or license from the Department of State for items controlled by the International Traffic in Arms Regulation (ITAR), or the Department of Commerce for items controlled by the Export Administration Regulations (EAR), may constitute a violation of law.

B. Under 22 U.S.C. 2778 the penalty for unlawful export of items or information controlled under the ITAR is up to 2 years imprisonment, or a fine of \$100,000, or both. Under 50 U.S.C., Appendix 2401, the penalty for unlawful export of items or information controlled under the EAR is a fine of up to \$1,000,000, or five times the value of the exports, whichever is greater; or for an individual, imprisonment of up to 10 years, or a fine of up to \$250,000, or both.

C. In accordance with your certification that establishes you as a "certified US contractor," unauthorized dissemination of this information is prohibited and may result in disqualification as a certified US contractor, and may be considered in determining your eligibility for future contracts with the Department of Defense.

D. The US Government assumes no liability for direct patent infringement, or contributory patent infringement or misuse of technical data.

E. The US Government does not warrant the adequacy, accuracy, currency, or completeness of the technical data.

F. The US Government assumes no liability for loss, damage, or injury resulting from manufacture or use for any purpose of any product, article, system, or material involving reliance upon any or all technical data furnished in response to the request for technical data.

G. If the technical data furnished by the Government will be used for commercial manufacturing or other profit potential, a license for such use may be necessary. Any payments made in support of the request for data do not include or involve any license rights.

H. A copy of this notice shall be provided with any partial or complete reproduction of these data that are provided to qualified US contractors.

---

POC: Rich Dixon  
PHONE: DSN 793-7153  
RESUBMITTAL: NO

---

OFFICE: AMSSB-RSO-SMK (RI)  
MYLARS REQUIRED: NO  
DATE: 18 January 2000

TECHNICAL STATEMENTS, CERTIFICATIONS & APPROVAL  
CLASS I OZONE DEPLETING CHEMICALS (ODC)

PART I

A technical evaluation of the Procurement Request, C20SACXX, Solenoid Assembly, P/N 31-15-2318 was performed on 15 Mar 2000 and I do hereby state to the contracting officer that to the best of my knowledge and belief:

\_\_\_ 1. The above referenced procurement request is for a commercial item. Therefore, no review for ODC was performed.

X 2. Based on a comparison of the specifications and standards contained in this PR and the DOD list of Military specifications and standards that call out the use of Ozone Depleting Chemicals (ODC), I have found no specifications or standards that require the use of a class I Ozone Depleting Chemical (ODC) or a requirement for the use of such a substance or that can be met only through use of such a substance.

\_\_\_ 3. Replacement substances or alternate technologies have been incorporated where applicable; therefore, this PR no longer contains any class I ODC or contractual requirements that can be met only by use of such a substance. These changes have been identified to the contracting officer in writing for inclusion in the solicitation Section C or the purchase description as changes to the appropriate technical documents. If this action is a modification or extension to an existing contract awarded before 1 June 1993 and meets the ODC review criteria, the ODC substitutes or alternate technology will result in an estimated ODC avoidance of \_\_\_ pounds. (List pounds saved for each substitute used in modifications to existing contracts awarded before 1 June 1993)

\_\_\_ 4. This PR contains the following specification or standard that require the use of class I ODC or requirements that can only be met by use of such a substance:

List of ODC Requirement(s)	Estimated Pounds of ODC

Name: Richard A. Dixon  
(Technical Evaluator/Reviewer)

Organization: AMSSB-RSO-SMK (RI)

Date: 15 Mar 2000

(If block 4 is checked, the approval pursuant to Section 326, Public Law 102-484 is provided below.)

03/15/00

ENGINEERING DATA MANAGEMENT SYSTEM

TECHNICAL DATA PACKAGE LIST

REQUEST/PRON ID: 20000266  
DOCUMENT NUMBER: 31-15-2318  
DOCUMENT CAGE: 81361  
SPECIFICATION: EA-G-1491  
NOMENCLATURE: SOLENOID ASSEMBLY

CAGE	CODE	SIZE	NUMBER	PREFIX DWG DRAWING/DOCUMENT	SHEET- REV DOCUMENT	NO OF SYM	DATE	DOCUMENT NOMENCLATURE	NOTE	STWNT	DIST
------	------	------	--------	-----------------------------	---------------------	-----------	------	-----------------------	------	-------	------

PRODUCT DRAWINGS AND ASSOCIATED LISTS

81361	DP	D	31-15-2318	001 001 F	15-MAR-95			SOLENOID ASSEMBLY			X
81361	PL	B	PL31-15-2318	001 001 A	29-AUG-94			PARTS LIST - SOLENOID ASSEMBLY			X
81361	QS	A	QAP31-15-2318	ALL 007 B	07-DEC-92			QAP - SOLENOID ASSEMBLY			X
81361	DP	E	31-15-2380	001 001 F	25-JUL-90			WIRING SCHEMATIC			
96906	DU	A	MS25036	001	N/A			TERMINAL LUG, CRIMP ST, COP INSUL RG TONGUE BLMTH TY 2	*		
96906	DU	A	MS3367	001	N/A			STRAP, TIEDOWN	*		
96906	DU	A	MS51504	001	N/A			ELBOW, PIPETOTUBE, 90DEGREES, MALE PIPE END, 3/8 DEGREES FLARE	*		
96906	DU	A	MS51846	001	N/A			NIPPLE, PIPE, STANDARD, BRASS OR COPPER	*		

PREFIX DWG DRAWING/DOCUMENT	-SHEET- REV DOCUMENT	NO OF SYM	DATE	DOCUMENT NOMENCLATURE	NOTE	DIST
-----------------------------	----------------------	-----------	------	-----------------------	------	------

PACKAGING DRAWINGS AND DOCUMENTS

81361	PD	A	P31-15-2318	ALL 003 B	10-NOV-92	SPL PKG INSTR - SOLENOID ASSEMBLY	A
-------	----	---	-------------	-----------	-----------	-----------------------------------	---

CAGE	PREFIX DWG DRAWING/DOCUMENT	-SHEET-	REV	DOCUMENT	NO	OF	SYM	DATE	DOCUMENT NOMENCLATURE	NOTE	STMT
------	-----------------------------	---------	-----	----------	----	----	-----	------	-----------------------	------	------

INSPECTION DRAWINGS AND DOCUMENTS

DIST  
NOTE STMT

DOCUMENT NOMENCLATURE

AMD CHG SUPPL REV DOCUMENT  
QPL NO. NO. SYM DATE

DRAWING NUMBER

SPECIFICATIONS AND STANDARDS

EA-G-1491	N	B	09-AUG-90	GENERATOR, SMOKE, MECHANICAL: REMOTE CONTROLLED, M54	*
PPP-B-636	N	-	N/A	BOXES, SHIP, FIBERBOARD - USE ASTM-D1974 OR ASTM-D5118	*
PPP-T-76	N	-	N/A	TAPE, PACKAGING, PAPER (FOR CARTON SEALING)	*
FED-STD-101	N	-	N/A	TEST PROCEDURES FOR PACKAGING MATERIALS	*
FED-STD-H28	N	-	N/A	SCREW-THREAD STANDARDS FOR FEDERAL SERVICES	*
3-1040-279-12&P	N	-	N/A	TECHNICAL MANUAL	*
MIL-B-117	N	-	N/A	BAGS, SLEEVES AND TUBING-INTERIOR PACKAGING	*
MIL-C-5015	Y	-	N/A	CONNECTORS, ELECTRICAL, CIRCULAR THREADED GEN SPEC FOR	*
MIL-C-5501	N	-	N/A	CAP AND PLUG, PROTECTIVE, DUST AND MOISTURE SEAL	*
MIL-C-5501-7	N	-	N/A	CAP & PLUG, PROT, DUST & MOIST SEAL, /CAP PLUG, GP	*
MIL-F-12070	N	B	N/A	FOG OIL	*
MIL-G-3056	N	-	N/A	GASOLINE, AUTOMOTIVE COMBAT	*
MIL-I-23053	N	-	N/A	INSULATION SLEEVING, ELEC., HEAT SHRINK., GENERAL SPEC.	*
MIL-P-116	N	-	N/A	PRESERVATION, METHODS OF	*
MIL-S-45180	N	-	N/A	SEALING COMPOUND, GASKET, HYDROCARBON FLUID, WATER RES	*
DOD-STD-100	N	-	N/A	ENGINEERING DRAWING PRACTICES	*
MIL-STD-1168	N	-	N/A	AMMUNITION LOT NUMBERING	*
MIL-STD-129	N	-	N/A	MARKING FOR SHIPMENT AND STORAGE	*
MIL-STD-130	N	-	N/A	IDENTIFICATION MARKING OF U.S. MILITARY PROPERTY	*
MIL-STD-2000	N	-	N/A	STD REQTS FOR SOLDERED ELEC & ELECTRONIC EQUIPMENT	# *
MIL-STD-454	N	-	(REPLACED BY MIL-STD-2000)		
MIL-STD-2073-1	N	-	N/A	DOD MATERIEL PROCEDURES FOR DEV & APPLICATION OF PKG	# *
ANSI-ASTM-D439	N	-	N/A	AUTOMOTIVE GASOLINE	**
ASTM-D439	N	-	(REPLACED BY ANSI-ASTM-D439)		
ANSI-Y14.5-73	N	-	N/A	DIMENSIONING AND TOLERANCING	**
ASTM-D4727	N	-	N/A	STD SPEC FOR CORRUGATED AND SOLID FIBERBOARD	**
PPP-F-320	N	-	(REPLACED BY ASTM-D4727)		
SAE-J512	N	-	N/A	AUTOMOTIVE TUBE FITTINGS	**
SAE-J514	N	-	N/A	HYDRAULIC TUBE FITTINGS	**
SAE-J530	N	-	N/A	AUTOMOTIVE PIPE FITTINGS	**

DOCUMENT NUMBER	CAGE	ECP/RFD/RFW NUMBER	NOR ID	DOCUMENT DATE	CONFIGURATION ITEM NOMENCLATURE
-----------------	------	-----------------------	-----------	------------------	------------------------------------

OUTSTANDING ENGINEERING CHANGES

EA-G-1491		S2C1502	001	09-OCT-92	Y16-0060 M157 GEN
-----------	--	---------	-----	-----------	-------------------



TDPL LEGEND

DESCRIPTION OF SYMBOLS IN THE NOTE COLUMN

G = GO TO PREFIX CODE

IF THE PREFIX CODE IS DE, DRAWING IS PROVIDED FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AND PROVIDING HIS OWN INSPECTION AND TEST EQUIPMENT.

ALL OTHER PREFIX CODES, EQUIPMENT TO BE FURNISHED AS GFE/GFM. DRAWING/DOCUMENT SUPPLIED ONLY FOR SPECIFIC PART OR ASSEMBLY DRAWING.

REF = REFERENCE DRAWING/DOCUMENT

\* = IF LISTED AS A SPECIFICATION IN THE HEADER OF THE TDPL, IGNORE THE \* IN THE NOTE COLUMN, DOCUMENT IS SUPPLIED OTHERWISE, DOCUMENT NOT FURNISHED - TO BE OBTAINED FROM:  
STANDARDIZATION DOCUMENT ORDER DESK  
700 ROBBINS AVENUE  
BUILDING 4, SECTION D  
PHILADELPHIA, PA. 19111-5094

IF NOT AVAILABLE, IMMEDIATELY ADVISE THE PROCURING CONTRACTING OFFICER.

\*\* = NOT FURNISHED. COMMERCIAL SPECIFICATIONS AND STANDARDS MAY BE OBTAINED FROM THE PUBLISHERS. THEY ARE NOT AVAILABLE FROM GOVERNMENT SOURCES.

# = Specifications and standards containing OZONE depleting substances (ODSS) and/or CHLOROFLUOROCARBONS (CFCs). Additional information on these substances is available from the contracting officer (This is in accordance with P.L. 102-484).

OTHER SPECIAL NOTATIONS

A LETTER 'Y' UNDER THE QPL COLUMN OF THE SPECIFICATIONS AND STANDARDS SECTION INDICATES THAT A QUALIFIED PRODUCTS LIST (QPL) IS REQUIRED. THE NUMBER OF THE QPL IS THE SAME AS THE SPECIFICATION NUMBER.

A 'DX' UNDER THE PREFIX CODE COLUMN OF THE PRODUCT DRAWINGS AND ASSOCIATED LISTS SECTION INDICATES THE DOCUMENT IS A SOURCE CONTROL DRAWING.

A DATE OF 'N/A' IN CONJUNCTION WITH AN '\*' IN THE NOTE COLUMN INDICATES THE DOCUMENT IS NOT UNDER THE CONTROL OF THE EDGEWOOD CHEMICAL BIOLOGICAL CENTER AND THE DOCUMENT IN EFFECT AT THE TIME OF THE SOLICITATION IS APPLICABLE.

\*\*\*\*\*  
\* END OF TDPL \*  
\*\*\*\*\*

## DOCUMENT SUMMARY LIST

Item: SOLENOID  
NSN: 31-15-2318  
Control Number/PRON: C20SACXX

Identifies all first tier documents (cited in SOW) (applicable DIDs). Also included are all referenced documents (2nd, (includes DID block 10 references), 3<sup>rd</sup> and lower tier) which have been tailored.

### DOCUMENT CATEGORY:

CATEGORY 0 - Unless otherwise specified in the solicitation, contract, or contract modifications, all documents are for guidance and information only.

CATEGORY 1 - The requirements contained in the directly cited document are contractually applicable to the extent specified. All referenced documents are for guidance and information only.

CATEGORY 2 - The requirements contained in the directly cited document and the reference documents identified in the directly cited document are contractually applicable to the extent specified. All subsequently referenced documents are for guidance and information only.

CATEGORY 3 - Unless otherwise specified in the solicitation, contract or contract modification, all requirements contained in the directly cited document and all reference and subsequently referenced documents are contractually applicable to the extent specified.

Document Number (Contract Reference) Applicable Tailoring	Document Title	Document Date/ Document Category
1a. MIL-STD-973	Configuration Management	17 Apr 92 Cat 2

See section C clause(s) titled: Value Engineering Change Proposals, Engineering Change Proposals, Deviation and/or Ozone-Depleting Substances.

In the application of MIL-STD-973 Paragraphs 5.4.3, 5.4.4 and 5.4.8 apply, and are tailored as follows:

- (1) Page 53, para 5.4.3.4., Delete "a contractor designed form, or a letter" in the first sentence.
- (2) Page 53, para 5.4.3.3.2a., Line 5, add "or size" after "weight".
- (3) Page 53, Delete para 5.4.3.5., and replace by, "Unless otherwise specified in the contract, requests for critical deviations should be approved or disapproved within 30 calendar days of receipt by the Government and for all other deviations within 60 calendar days of receipt by the Government."
- (4) Para 5.4.3.5.1. Minor deviations.  
Line 3. Delete "...by the activity...Class II change" and insert "by the Contracting Officer."
- (5) Page 55, para 5.4.4.3.2a., Line 7, add "or size" after "weight".
- (6) Page 56. Delete paragraph 5.4.4.5 and replace by "Unless otherwise specified in the contract

requests for critical waivers should be approved or disapproved within 30 calendar days of receipt by the Government and for all other RFWs within 60 calendar days of receipt by the Government."

(7) Para 5.4.4.5.1. Minor waivers.

Lines 4 and 5. Delete "...Contract Administration Office (CAO)." Insert "...Configuration Manager and a Government Contracting Officer."

(8) Page 61, para 5.4.8.3.4., in line 6 add "or size" after "weight".

(9) Page 61, Add new para 5.4.8.3.4.1., "An RFD shall be supported by test data and analysis, where appropriate, and provided to support the decision regarding acceptance of the nonconformance."

(10) Page 61, Delete para 5.4.8.3.5. and replace by, "Unless otherwise specified in the contract, deviations are approved and authorized only by the Contracting Officer. Critical deviations should be processed within 30 calendar days of receipt by the Government and all other RFDs processed within 60 calendar days of receipt by the Government."

(11) Page 62, para 5.4.8.4, Delete lines 7 thru 10 and replace with "standard. All RFWs shall be submitted as specified in the contract for approval or disapproval and acceptance or rejection by the authorized Contracting Officer."

(12) Page 62, para 5.4.8.4.4., on line 6 add "or size" after "weight".

(13) Page 62, Add new para 5.4.8.4.4.1., "an RFW shall be supported by test data and analysis, where appropriate, and provided to support the decision regarding acceptance of the nonconformance."

1b. Interim Notice 3 (DO)	Configuration Management	13 Jan 95 Cat 2
1c. DI-CMAN-80639B (seq A001)	Engineering Change Proposal	13 Jan 95 Cat 2
1d. DI-CMAN-80640B (seq A002)	Request for Deviation	13 Jan 95 Cat 2
1e. DI-CMAN-80641B (seq A003)	Request for Waiver	13 Jan 95 Cat 2
1f. DI-CMAN-80642B (seq A004)	Notice of Revision	13 Jan 95 Cat 2
2. ANSI/ISO/ASQC Q9002 or equivalent	Model for Quality Assurance in Production, Installation & Servicing	18 Jul 94

CONTRACT DATA REQUIREMENTS LIST  
DD FORM 1423 (MECHANIZED)

CATEGORY: MISC SYSTEM/ITEM: SOLENOID  
TO CONTRACT/PR: C20SACXX

1. SEQUENCE NUMBER	14. DRFT/REG/REPRO DISTRIBUTION COPIES
2. TITLE OF DATA ITEM	
3. SUBTITLE	
4. DATA ITEM NUMBER	
5. CONTRACT REFERENCE	
6. TECHNICAL OFFICE	7. DD 8. APP 9. DIST STATEMENT 250 CODE REQUIRED
10. FREQUENCY	11. AS OF DATE 15. TOTAL:
12. DATE OF 1ST SUBMISSION	13. DATE OF SUBSEQUENT SUBMISSION
16. REMARKS	

-----

1. A001	14. SEE ADDRESS CODE / /
2. ENGINEERING CHANGE PROPOSAL (ECP)	DISTRIBUTION / /
3. *	ATTACHED / /
4. DI-CMAN-80639B	
5. MIL-STD-973	
6. AMSSB-RSO-ADM(RI)	7. LT 8. - 9.**
10. ASREQ	11. --- 15. TOTAL 0/ 0/ 0
12. ASREQ	13.
16. REMARKS	
ECP SHORT FORM SHALL BE USED FOR THE SUBMISSION AND PROCESSING OF ALL CLASS II ENGINEERING ACTIONS. **DISTRIBUTION STATEMENT WILL BE ASSIGNED AND IMPLEMENTED BY THE DOD CONFIGURATION MANAGER.	

-----

1. A002	14. SEE ADDRESS CODE / /
2. REQUEST FOR DEVIATION (RFD)	DISTRIBUTION / /
3.	ATTACHED / /
4. DI-CMAN-80640B	
5. MIL-STD-973	
6. AMSSB-RSO-ADM(RI)	7. LT 8. - 9.**
10. ASREQ	11. --- 15. TOTAL 0/ 0/ 0
12. ASREQ	13.
16. REMARKS	
**DISTRIBUTION STATEMENT WILL BE ASSIGNED AND IMPLEMENTED BY THE DOD CONFIGURATION MANAGER.	

1. A003		14.	
2. REQUEST FOR WAIVER (RFW)		SEE ADDRESS CODE	/ /
3.		DISTRIBUTION	/ /
		ATTACHED	/ /
4. DI-CMAN-80641B			
5. MIL-STD-973			
6. AMSSC-HB-ADM(RI)	7. LT	8. -	9.**
10. ASREQ	11. ---	15. TOTAL	0/ 0/ 0
12. ASREQ	13.		

16. REMARKS  
\*\*DISTRIBUTION STATEMENT WILL BE ASSIGNED AND IMPLEMENTED BY THE DOD CONFIGURATION MANAGER.

1. A004		14.	
2. NOTICE OF REVISION (NOR)		SEE ADDRESS CODE	/ /
3.		DISTRIBUTION	/ /
		ATTACHED	/ /
4. DI-CMAN-80642B			
5. MIL-STD-973			
6. AMSSB-RSO-ADM(RI)	7. LT	8. -	9.**
10. ASREQ	11. ---	15. TOTAL	0/ 0/ 0
12. ASREQ	13.		

16. REMARKS  
THE CONTRACTOR SHALL PREPARE AND SUBMIT A NOR FOR EACH DRAWING, ASSOCIATED LIST, OR OTHER REFERENCED DOCUMENT WHICH REQUIRE REVISION AFTER ECP APPROVAL. \*\*DISTRIBUTION STATEMENT WILL BE ASSIGNED AND IMPLEMENTED BY THE DOD CONFIGURATION MANAGER.

ALL THE ABOVE MAY BE SUBMITTED TO:

COMMANDER  
U.S.ARMY SOLDIER AND BIOLOGICAL CHEMICAL COMMAND (SBCCOM)  
ATTN: AMSSB-RSO-ADM (CDE QA CELL) BLDG.62,1<sup>st</sup>floor,West Wing  
ROCK ISLAND,IL 61299-7390